

SEQUENCE LISTING



<110> GILL, Peter
HUSSAIN, Javaid
LONG, Adam

<120> Improvements in and relating to analysis of DNA

<130> 7500.331USC1

<140> 10/034,692

<141> 2001-12-27

<150> PCT/GB00/02795

<151> 2000-07-24

<150> GB9917307.2

<151> 1999-07-23

<150> GB0009187.6

<151> 2000-04-14

<160> 42

<170> PatentIn Ver. 2.1

<210> 1

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: An artificial universal primer sequence designed to act as a molecular beacon and referred to at page 13 of the application.

25

<400> 1
acgcgctctc ttcttctttt gcgcg

<210> 2

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: An artificial universal reporter primer forward sequence designed to optimally prime at 60 degrees C, page 29.

20

<400> 2
cgacgtggtg gatgtgctan

<210> 3

<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: An artificial
universal primer reverse sequence designed to
optimally prime at approximately 60 degrees C,
page 29.

<400> 3
tgacctggct gactcgactg 20

<210> 4
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: An artificial
universal primer reverse sequence designed to
optimally prime at 60 degrees C, page 30.

<400> 4
tgccgtggct gacctgagac 20

<210> 5
<211> 20
<212> DNA
<213> Homo sapiens

<400> 5
gtattttcgt ctggggggta 20

<210> 6
<211> 21
<212> DNA
<213> Homo sapiens

<400> 6
gtctgtcttt gattcctgcc c 21

<210> 7
<211> 20
<212> DNA
<213> Homo sapiens

<400> 7
tttgattcct gcctcatccc 20

<210> 8
<211> 20

<212> DNA
<213> Homo sapiens

<400> 8
atattacagg cgaacatacc 20

<210> 9
<211> 27
<212> DNA
<213> Homo sapiens

<400> 9
gcttgtagga cataataata acaatta 27

<210> 10
<211> 22
<212> DNA
<213> Homo sapiens

<400> 10
cagagatgtg tttaagtgt gt 22

<210> 11
<211> 19
<212> DNA
<213> Homo sapiens

<400> 11
accagctttg ccagttccm 19

<210> 12
<211> 16
<212> DNA
<213> Homo sapiens

<400> 12
ttccgtgggt gtggck 16

<210> 13
<211> 21
<212> DNA
<213> Homo sapiens

<400> 13
ggcagagcga ctaaaagcaa a 21

<210> 14
<211> 37
<212> DNA
<213> Artificial Sequence

$\langle 220 \rangle$

<223> Description of Artificial Sequence: A human Gc forward primer with an artificial universal primer tag to detect a SNP polymorphism at Gc1s/1f, page 47.

<400> 14

cgacgtggtg gatgtgctag gttccgtggg tgtggcc

37

<210> 15

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: A Human Gc reverse primer with an artificial universal primer tag to detect a SNP polymorphism at Gc1s/1f, page 47.

<400> 15

tgacgtggct gacctgagac ggcagagcga ctaaaagcaa a

41

<210> 16

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: An artificial universal molecular beacon primer sequence designed to detect universal primer 9G polymorphism, page 47.

<400> 16

acgcgctctc ttcttctttt gcgcgcgacg tggtggatgt gctag

45

<210> 17

<211> 20

<212> DNA

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Description of Artificial Sequence: An artificial reverse primer sequence designed to detect universal reverse 11 primer sequence, page 47.

<400> 17

tgacgtggct gacctgagac

20

<210> 18

<211> 39

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: A human Gc forward primer attached to an artificial universal primer tag to detect a SNP polymorphism at Gcls/1f, page 48.

<400> 18

cgacgtggtg gatgtgctag accagctttg ccagttccg

39

<210> 19

<211> 39

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: A human Gc forward primer attached to an artificial universal primer tag to detect a SNP polymorphism at Gcls/1f, page 48.

<400> 19

cgacgtggtg gatgtgcttc accagctttg ccagttcct

39

<210> 20

<211> 37

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: A human Gc forward primer attached to an artificial universal primer tag to detect a SNP polymorphism at Gcls/1f, page 48.

<400> 20

cgacgtggtg gatgtgctag gttccgtggg tgtggcc

37

<210> 21

<211> 37

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: A human Gc forward primer attached to an artificial universal primer tag to detect a SNP polymorphism at Gcls/1f, page 48.

<400> 21

cgacgtggtg gatgtgcttc gttccgtggg tgtggca

37

<210> 22
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: A human Gc reverse primer attached to an artificial universal primer tag to detect SNP polymorphisms at Gc1s/1f, page 48.

<400> 22
tgacgtggct gacctgagac ggcagagcga ctaaaagcaa a 41

<210> 23
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: An artificial molecular beacon forward primer attached to a universal primer tag to detect universal primer 9G polymorphism.

<400> 23
acgcgctctc ttcttctttt gcgcgcgacg tgggtggatgt gctag 45

<210> 24
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: An artificial molecular beacon forward primer attached to a universal primer tag to detect universal primer 9C polymorphism.

<400> 24
acgcgctctc ttcttctttt gcgcgcgacg tgggtggatgt gcttc 45

<210> 25
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: An artificial reverse universal primer designed to detect universal 11 sequence, page 48.

<400> 25
tgacgtggct gacctgagac 20

<210> 26
<211> 41
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: A Human
Amelogenin sequence forward primer attached to an
artificial universal sequence to detect Amelogenin
X polym.

<400> 26
cgacgtggtg gatgtgcttc tgagccaatg gtaaactgc c

41

<210> 27
<211> 41
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: A Human
Amelogenin sequence forward primer attached to an
artificial universal sequence to detect Amelogenin
Y polym.

<400> 27
cgacgtggtg gatgtgctag tgagccaatg gtaaactgc a

41

<210> 28
<211> 46
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: A Human
Amelogenin sequence reverse primer attached to an
artificial universal sequence to detect Amelogenin
X/Y polymorphism; n designates inosine..

<400> 28
tgacgtggct gacctgagac cataggaagn gtactggtga gaaaca

46

<210> 29
<211> 45
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: An artificial
molecular beacon forward primer attached to a
universal primer tag to detect universal primer 9G
polymorphism.

<400> 29
acgcgctctc ttctttctttt gcgcgcgacg tgggtggatgt gctag 45

<210> 30
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: An artificial molecular beacon forward primer attached to a universal primer tag to detect universal 9C polymorphism, page 49.

<400> 30
acgcgctctc ttctttctttt gcgcgcgacg tgggtggatgt gcttc 45

<210> 31
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: An artificial reverse universal primer designed to detect universal 11 sequence, page 48.

<400> 31
tgacgtggct gacctgagac 20

<210> 32
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: An artificial forward universal primer attached to human Gc1s sequence, page 57.

<400> 32
ctagctgggtg gctgtgctag gttccgtggg tgtggcc 37

<210> 33
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: An artificial reverse universal primer attached to human Gc sequence to detect Gc1s/1f polymorphisms, page 57.

<400> 33
ctagctggtg gctgtgctag ggcagagcga ctaaaagcaa a 41

<210> 34
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: A human
alpha-1- antitrypsin forward sequence attached to
an artificial universal primer to detect
alpha-1.M1S polym.

<400> 34
ctagctggtg gctgtgctag aggggaaact acagcacctg ga 42

<210> 35
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: A human
alpha-1- antitrypsin foward sequence attached to
an artificial universal primer to detect alpha-1.S
polym, Fig 11.

<400> 35
ctagcctggt gtgtggctag aggggaaact acagcacctg gt 42

<210> 36
<211> 43
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: A human
alpha-1- antitrypsin reverse sequence attached to
an artificial universal primer to detect
alpha-1.M1S polym.

<400> 36
ctagctgctg tggtggctag tggtgatgat atcgtgggtg agt 43

<210> 37
<211> 27
<212> DNA
<213> Homo sapiens

<400> 37
cctgaagcca caccacgga actggca 27

<210> 38
<211> 18
<212> DNA
<213> Homo sapiens

<400> 38
agttccgtgg gtgtggcc

18

<210> 39
<211> 27
<212> DNA
<213> Homo sapiens

<400> 39
cctgaggcca cacccacgga actggca

27

<210> 40
<211> 27
<212> DNA
<213> Homo sapiens

<400> 40
cctgaggcca cacccaagga actggca

27

<210> 41
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Self
complimentary universal forward reporter primer
artificial sequence, Figure 25c.

<400> 41
ctagctggtg gctgtgctag

20

<210> 42
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Self
complimentary universal reverse reporter primer
artificial sequence, Figure 25c.

<400> 42
ctagctggtg gctgtgctag

20